

Review Assessment

Name:

This open-book.

You need to show all of your work.

It is worth 50 points (2 per problem)

- 1) Reduce this fraction.

$$\frac{77}{121}$$

- 2) Write the following using math: the sum of x and 10, divided by x increased by 4

- 3) Evaluate when $a = 2$, $b = 3$, $c = -1$.

$$(6ac)/2ba$$

- 4) Combine like terms: $3x - 2y - 5x + 10y$

- 5) Solve for x.

$$2x - 3 = 13$$

- 6) Solve for x.

$$2 < 2x + 4 < 10$$

- 7) Solve for x.

$$|x + 1| = 2$$

- 8) Solve for x.

$$|x + 2| < 4$$

- 9) Find the slope of the line that goes through the following points: (2, 4), (7, 9).

10) Find the slope and y intercept of $2x-y=10$.

11) What is a function?

For the following problems, $f(x)=2x+1$ and $g(x)=4x-1$.

12) Find $f(x)+g(x)$

13) Find $f(x)-g(x)$

14) Find $f(4)-g(2)$

15) Find $f(1)+g(1)$

16) Multiply: $x(x+3)$

17) Multiply
 $(x+1)(x-4)$

18) Multiply
 $(x^2+10x-4)(x-5)$

19) Factor: x^2+10x

20) Factor $x^2+10x+2x+20$

21) Factor: $x^2+14x+24$

22) Factor: x^2-16

23) Divide: $\frac{x^2+10x-12}{x+2}$

24) Solve for x. $x^2+10x+16=0$

25) Solve for x. $3x^2-5x-2=0$

